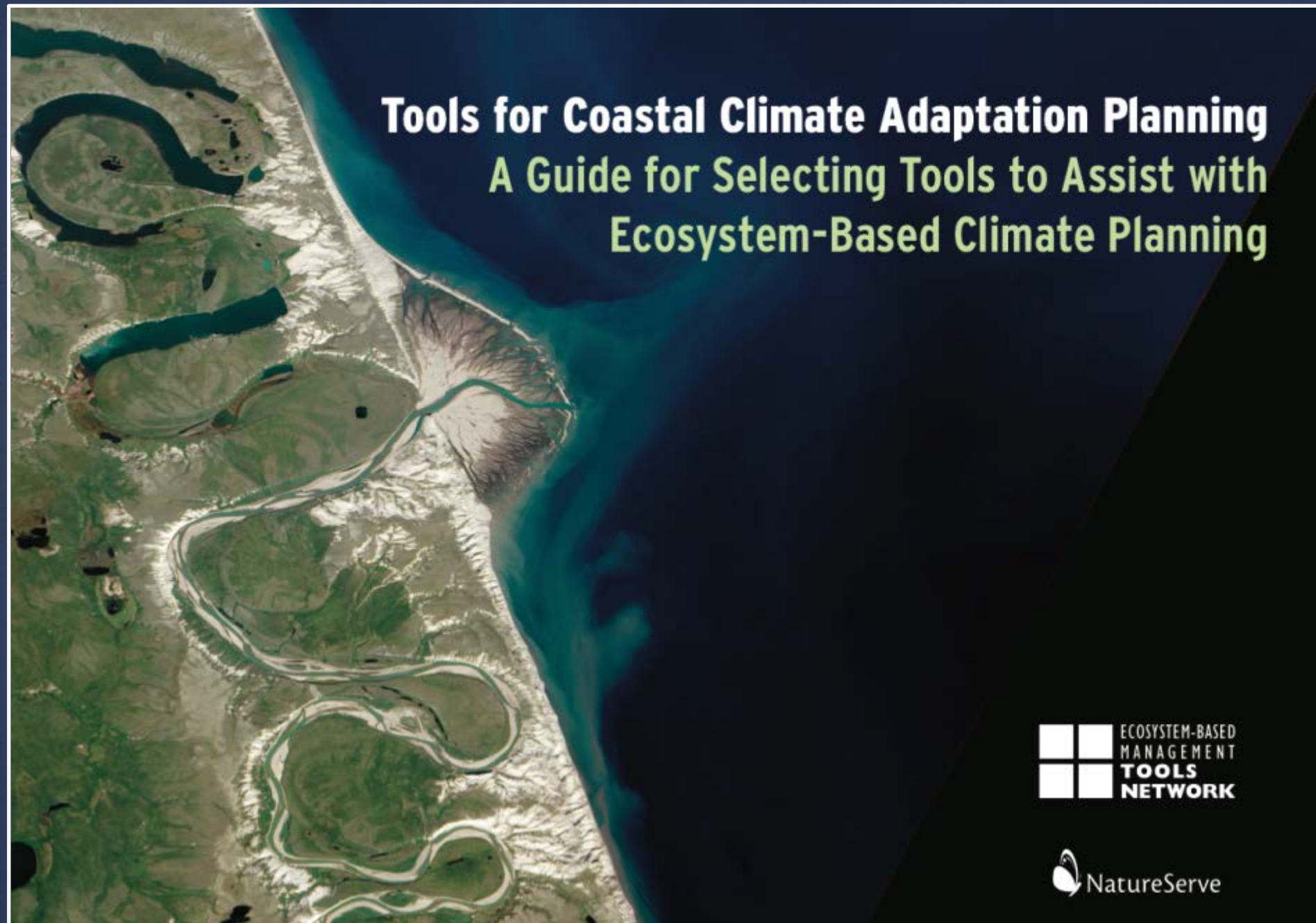


Tools for Coastal Climate Vulnerability Assessment and Adaptation Planning



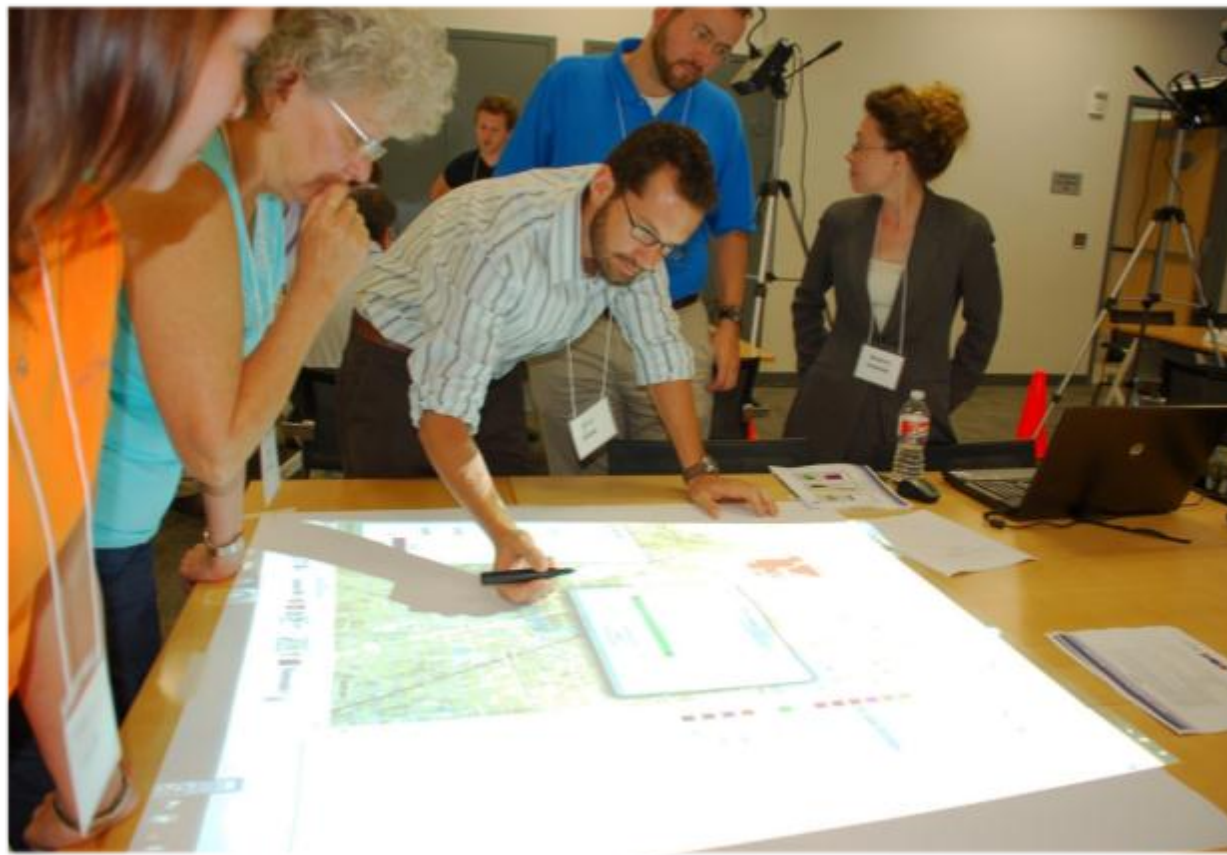
John Rozum
NOAA Coastal Services Center

Sarah Carr
NatureServe

On the Panel Today

- **Sea Level Rise (SLR) and Coastal Flooding Impacts Viewer**
Gwen Shaughnessy, IMSG, National Oceanic and Atmospheric Administration (NOAA) Coastal Services Center
- **Our Coast Our Future**
Kelley Higgason, Gulf of Farallones National Marine Sanctuary
- **InVEST**
Suzanne Langridge, Stanford University
- **NatureServe Vista**
Patrick Crist, NatureServe
- **CommunityViz**
Amy Anderson, Placeways, LLC

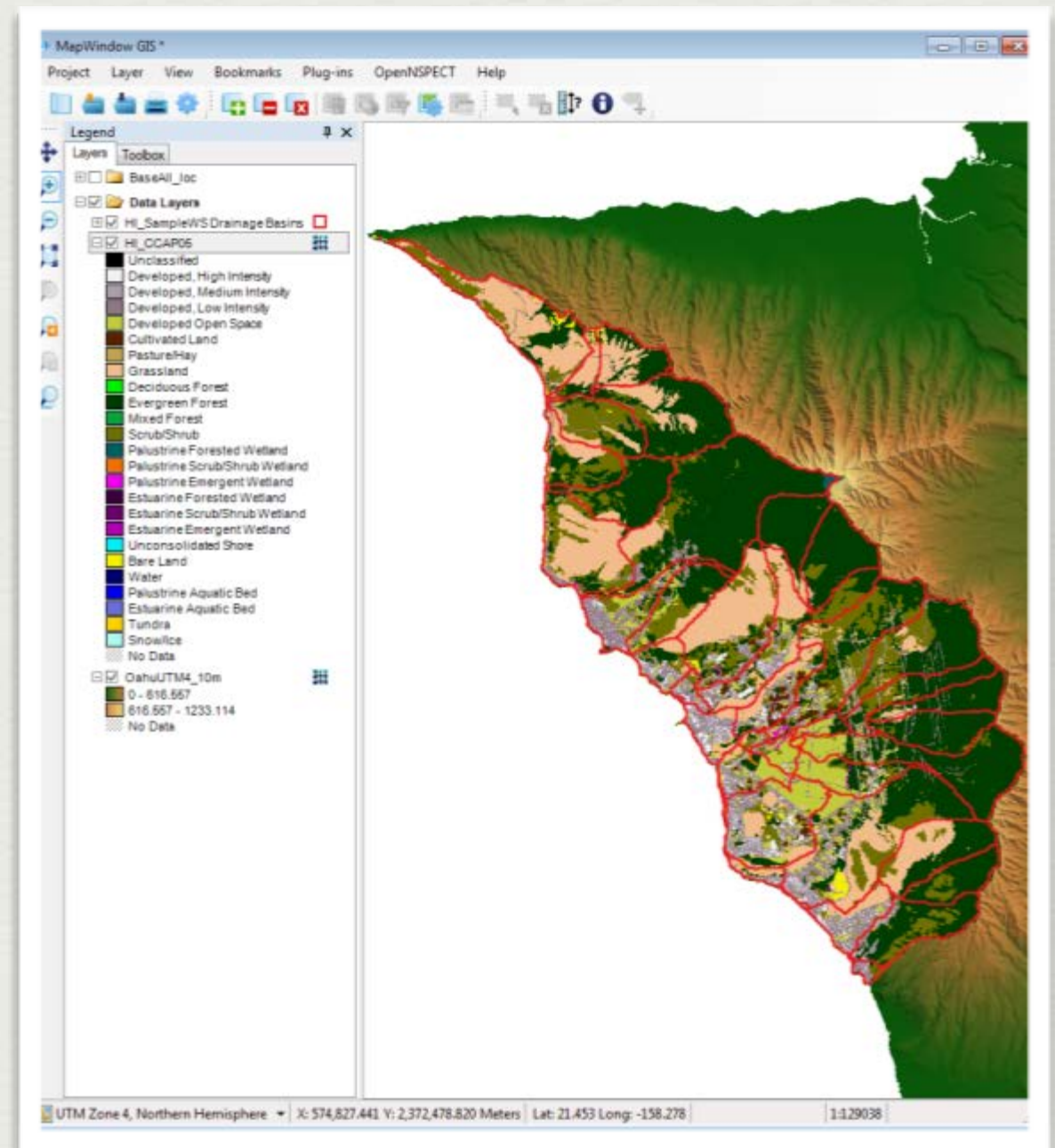
Purpose of the Guide



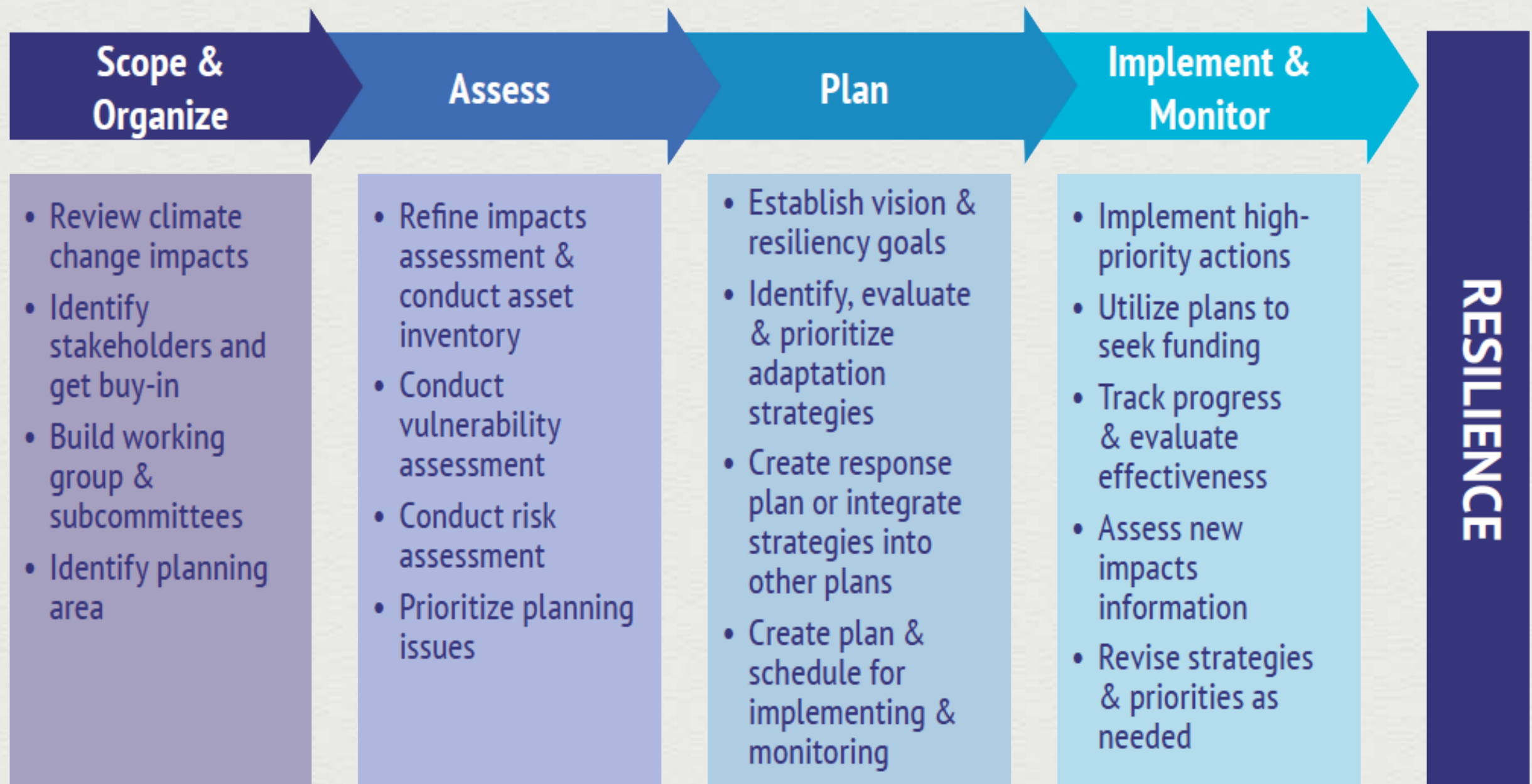
- Target coastal planners and managers
- Help select appropriate tools for projects
- Not an exhaustive compendium
- Focuses on tools that facilitate multi-sector planning

What Is a Tool?

- Software and Web-based tools
- Help incorporate data and analyses into planning process



An Adaptation Planning Process



Adapted from San Francisco Bay Conservation and Development Commission Adapting to Rising Tides Project

**Data Mgmt/
Visualization**

Models

Decision Support

**Scope &
Organize**

Assess

Plan

**Implement &
Monitor**

- Review climate change impacts
- Identify stakeholders and get buy-in
- Build working group & subcommittees
- Identify planning area

- Refine impacts assessment & conduct asset inventory
- Conduct vulnerability assessment
- Conduct risk assessment
- Prioritize planning issues

- Establish vision & resiliency goals
- Identify, evaluate & prioritize adaptation strategies
- Create response plan or integrate strategies into other plans
- Create plan & schedule for implementing & monitoring

- Implement high-priority actions
- Utilize plans to seek funding
- Track progress & evaluate effectiveness
- Assess new impacts information
- Revise strategies & priorities as needed

RESILIENCE

Adapted from San Francisco Bay Conservation and Development Commission Adapting to Rising Tides Project

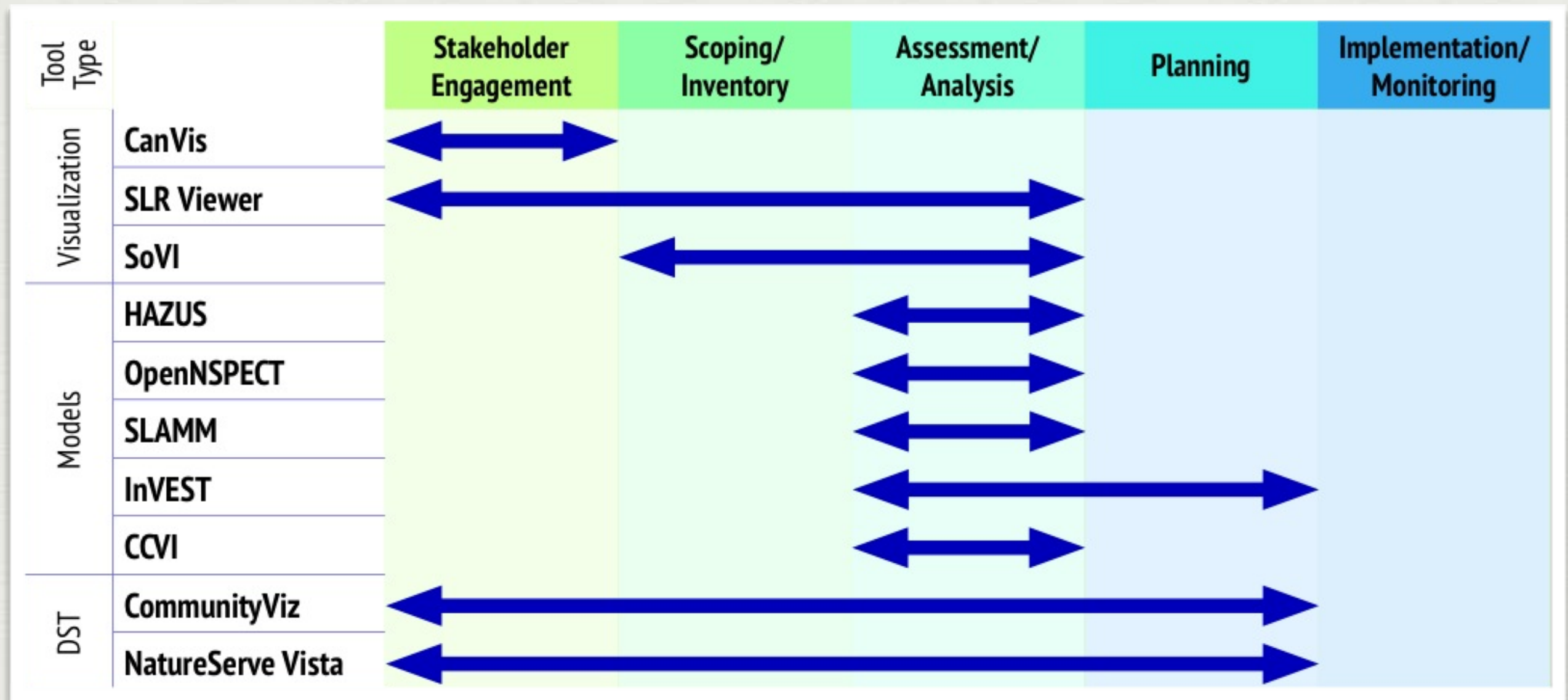
Characterizing Tools

Types	Planning Process	Sectors
Visualization	Stakeholder Engagement	Natural Resources
Modeling	Scoping/Inventory	Agriculture
Decision Support	Assessment/Analysis	Built Environment
	Planning	Transportation
	Implementation/ Monitoring	Energy

Tools in the Guide

Visualization	Models	Decision Support
CanVis	HAZUS-MH	Community Viz
SLR Viewer and Coastal Flooding Impacts Viewer	OpenNSPECT	NatureServe Vista
Social Vulnerability Index	SLAMM	
	InVEST	
	Climate Change Vulnerability Index (CCVI)	

Tools and the Planning Process



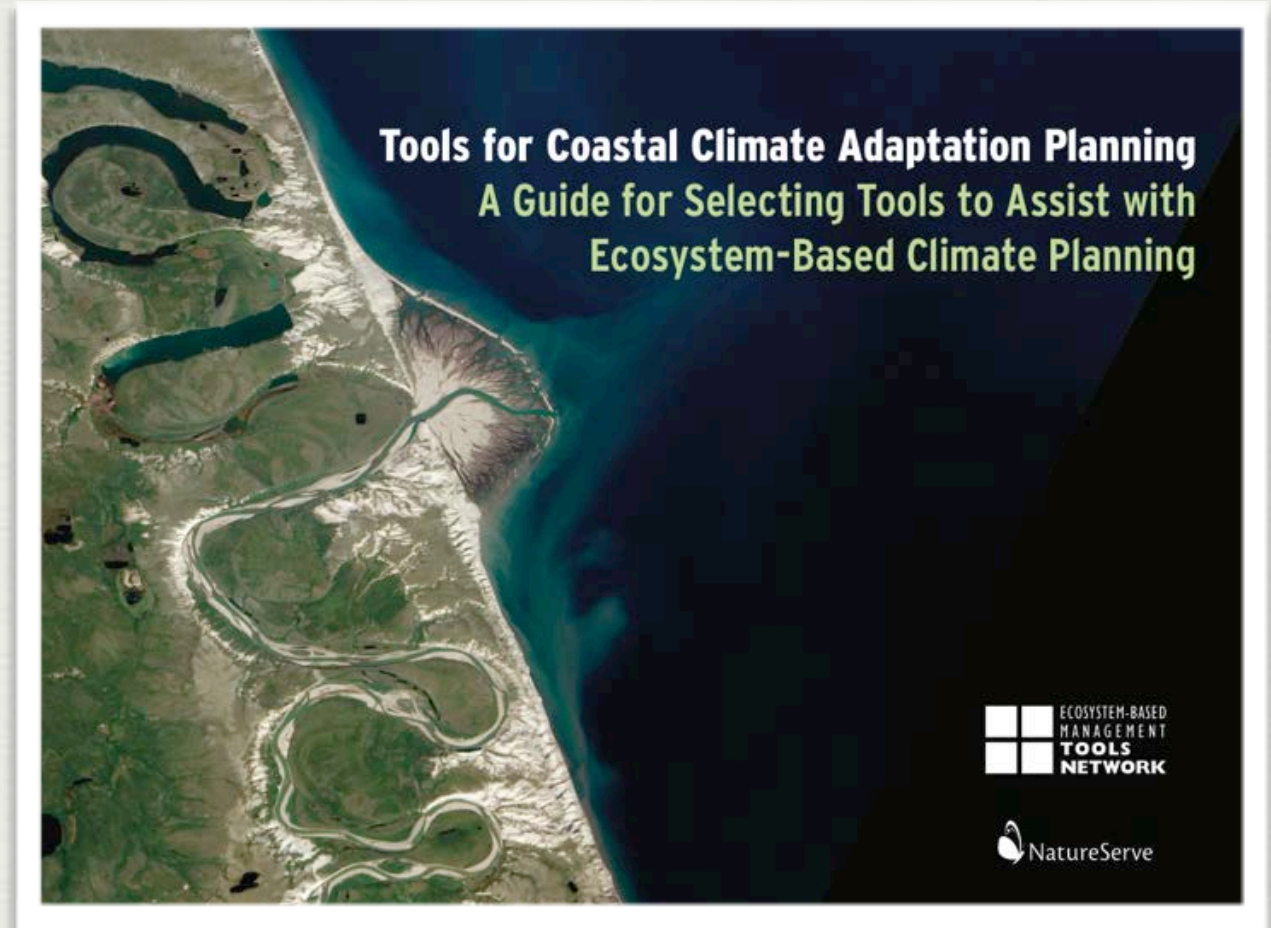
Why These Tools?

- Could be used for adaptation planning
- Applicable to broad range of geographies, species, ecosystems, and projects
- Usable by coastal managers and planners
- Actively maintained and have technical support available
- Have examples of successful results or validation



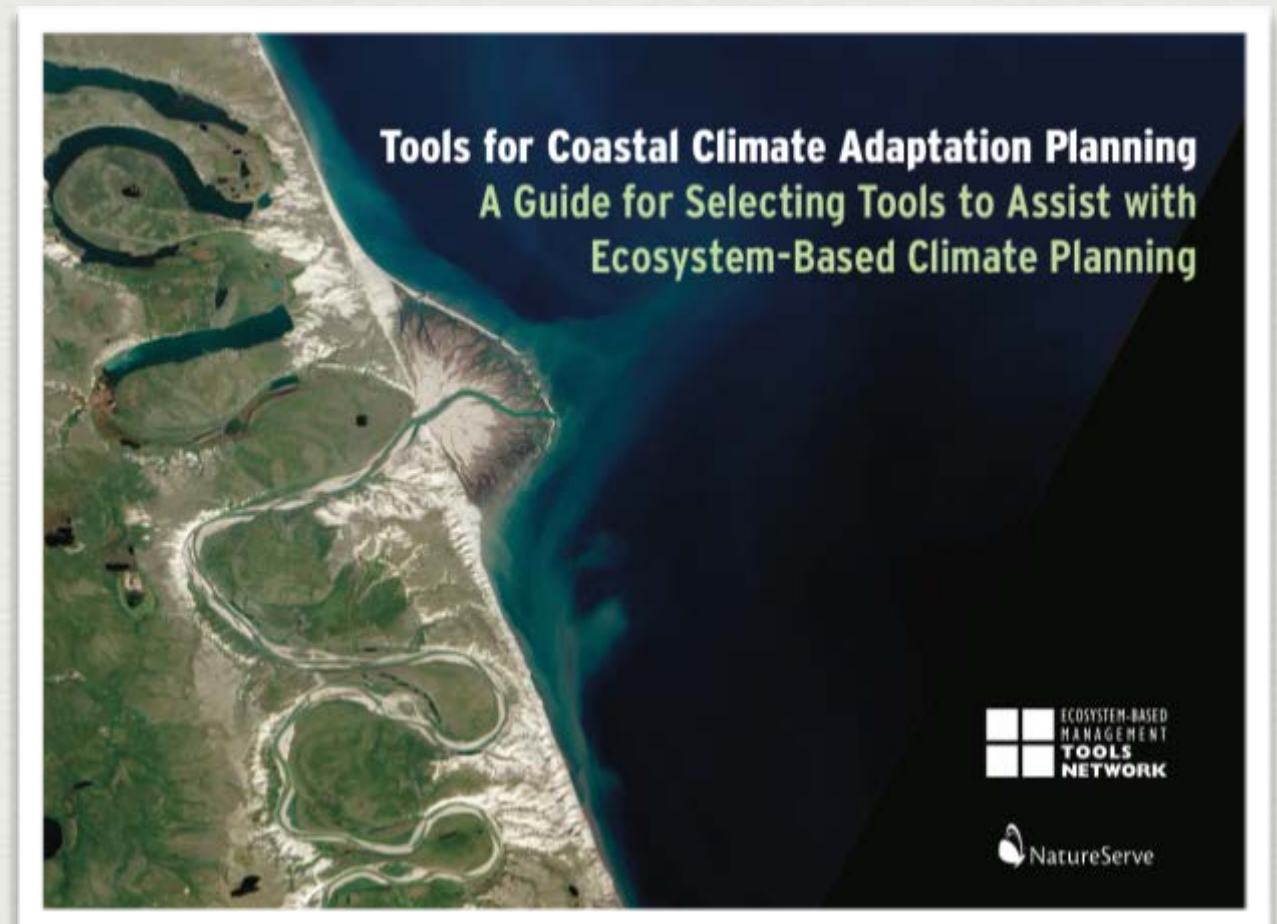
The Climate Tools Guide

- Overview of Tools
- Details on key visualization, modeling and decision support tools
- Case Studies
- "How to" for selecting tools

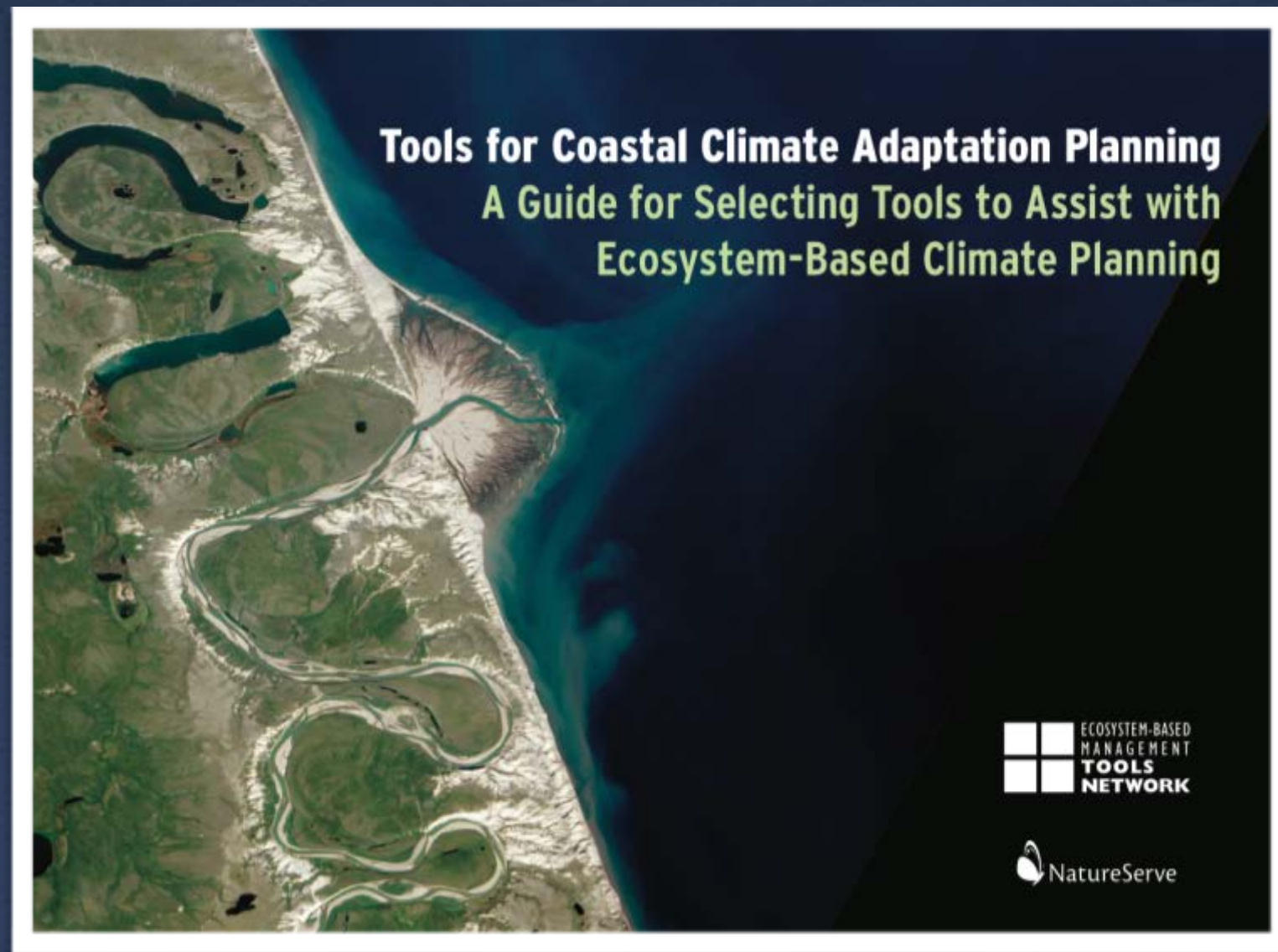


How to Get Your Copy

- All digital distribution
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- View relevant webinars



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